

Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)

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**Electrocoagulation
Test Site
at 100-D**

*Setting the cargo container
housing the
Electrocoagulation Cell*



*Cargo Containers, Sand Filter and Clarifier
at the Electrocoagulation Test Site*

Overview

This section addresses Project Baseline Summary (PBS) RL-0030, *Soil and Water Remediation, Groundwater/Vadose Zone*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of March 2007.

Notable Accomplishments

- **River Corridor**
 - Completed an eight well injection campaign to complete low-river emplacement of 300-foot apatite barrier at 100-NR-2
 - Completed aquifer tube sampling
 - Completed all seven wells in the chromium source investigation
- **Central Plateau**
 - Completed decommissioning 57 of the 90 wells planned for FY 2007
 - Submitted the 200-BP-5 Groundwater Operable Unit (OU) Remedial Investigation/Feasibility Study (RI/FS) Work Plan
 - Completed construction of the A-4 characterization borehole as a 200-PO-1 monitoring well
- **Integration**
 - Submitted the Draft Integrated Groundwater and Vadose Zone Management Plan
 - Held the EM-20 workshop on application of science and technology at Hanford
 - Completed transects for 22 high resolution resistivity lines in surrounding area to the B-BX-BY waste management area
 - Finalized members of the Electrical Resistivity Tomography panel

FY 2007 Funds vs. Spend Forecast (\$M)

	Projected FY 2007 Funding	FY 2007 Fiscal Year Spend Forecast	Variance
Soil & Water Remediation, Groundwater/Vadose Zone	\$ 80.5	\$ 79.2	\$ 1.3

Schedule/Cost Performance (\$M)

Soil & Water Remediation, Groundwater/Vadose Zone	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion
Current Period (Month)	\$6.9	\$6.7	\$6.0	-\$0.2	-2.9%	\$0.7	11.0%	\$67.8
Cumulative-to-Date (FY 2004-Present)	\$165.6	\$160.5	\$165.3	-\$5.1	-3.1%	-\$4.8	-3.0%	\$268.8

Numbers are rounded to the nearest \$0.1M and include the Closure Services allocation.

CTD Schedule Performance (-\$5.1M/-3.1%):

The schedule variance is being driven by three main contributors:

- Groundwater/Vadose Zone Integration
 - Competing priorities on the finalization of strategy and issuing of subcontracts
 - Initiation of the Technical Peer Review was delayed while discussions were held with RL and the Washington State Department of Ecology (Ecology) regarding the panel/workshop strategy.
 - Environmental Database is behind schedule primarily due to the effort to finalize subcontracting strategy (identifying scope, etc.) with Lockheed Martin Information Technology, Inc. (LMIT)
- 100-NR-2 OU
 - Injections delayed until late February; change in field implementation plan.
- 200-ZP-1 OU
 - Drilling delays due to mechanical problems with resultant delays in lab analysis; four months behind schedule on feasibility study due to risk modeling delays; proposed plan four months behind schedule.

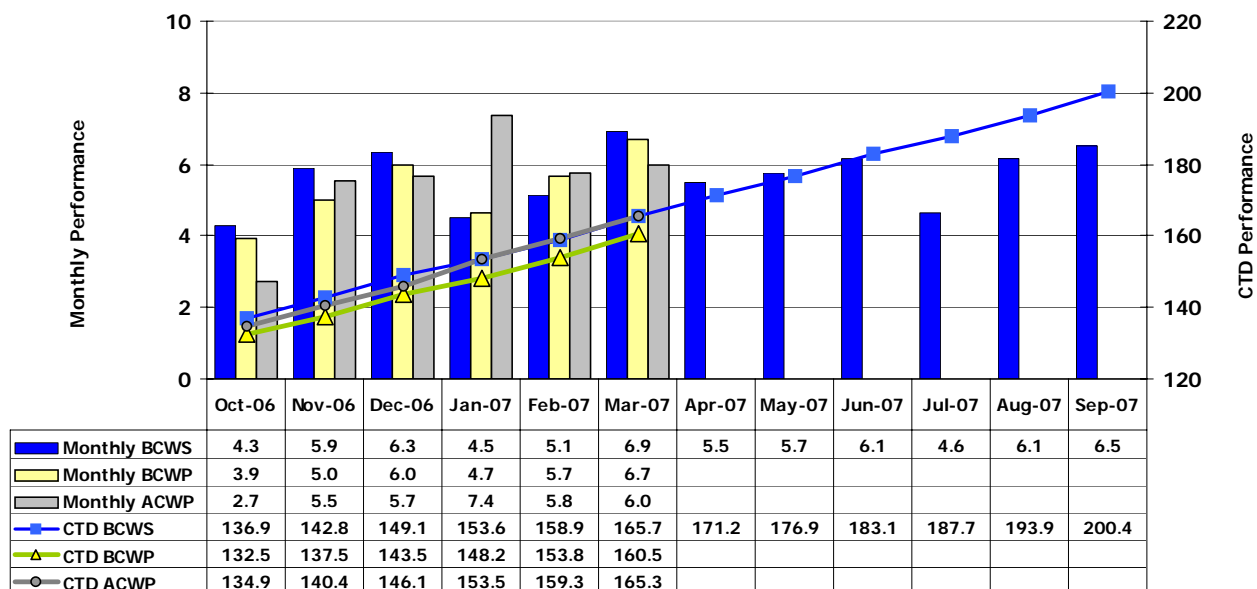
CTD Cost Performance (-\$4.8M/-3.0%):

The cost variance is being driven by three main contributors:

- Well Management
 - Recovery costs for damaged 200-ZP-1 well and stuck well casing; higher than projected subcontractor costs for 100-KR-4 wells; advanced authorization to start 618-2 burial ground boreholes and A-4 monitoring well pending baseline change request (BCR) approval.
- Groundwater monitoring and Performance Assessments
 - Higher initial work load for decommissioning wells (Geo Science Logging); RCRA Monitoring and Reporting unbudgeted labor; higher costs than planned for Waste Sampling and Characterization Facility (WSCF)/Office of Sample Management.
- 100-KR-4
 - Overrun on the K West Reactor Chromium Plume construction; the tie-in to relocate injection wells (BCR being incorporated).

Schedule/Cost Performance (\$M), continued

Performance Analysis CTD and Monthly (\$M)



Milestone Achievement

	Milestone Title	Type	Due Date	Actual Date	Forecast Date
RL-30					
M-013-06B	Submit the 200-BP-5 OU RI/FS Work Plan to EPA	TPA	3/31/2007	3/30/2007	3/31/2007
M-016-14A	Complete Construction of a 300 foot Permeable Reactive Barrier Utilizing Apatite Sequestration at 100-N	TPA	5/31/2007	3/25/2007	5/31/2007
M-015-48B	Submit the 200-ZP-1 OU Feasibility Study Report / Proposed Plan to EPA	TPA	9/30/2007		9/30/2007
M-013-10A	Submit the 200-PO-1 OU Remedial Investigation/Feasibility Study to Ecology	TPA	9/30/2007		9/30/2007
M-024-57M	Install a Cumulative of 60 Wells	TPA	12/31/2007		4/30/2007
M-015-50	Submit a Treatability Work Plan for Deep Vadose Zone Technetium and Uranium to Ecology and EPA	TPA	12/31/2007		12/31/2007